STATUS OF CLAIMS

Claims 1-20 are currently pending in this application. By this Amendment, claims 1 and

17 are amended, leaving claims 2-16, and 18-20 unchanged.

**INTERVIEW SUMMARY** 

On January 3, 2008, a telephonic Examiner's Interview was conducted between the

Examiner and the undersigned Applicant's Representative, Christopher B. Austin. During the

interview, the parties discussed the meaning of the phrase "vertically elongated". The parties

also discussed alternatives to the phrase "vertically elongated," and the amendments hereby

made to independent claims 1 and 17. The Examiner acknowledged that the amendments hereby

made to independent claims 1 and 17 further distinguish these claims from Khrustalev et al.

(discussed below).

CLAIM REJECTIONS – 35 U.S.C. §112

On page 2 of the Office Action, claims 1-20 are rejected under 35 U.S.C. §112 first

paragraph, as failing to comply with the written description requirement. On pages 2 and 3 of

the Office Action, claims 1-20 are rejected under 35 U.S.C. §112 second paragraph, as failing to

particularly point out and distinctly claim the subject matter which the Applicants regard as the

invention. As indicated above, independent claims 1 and 17 are hereby amended to remove the

phrases objected to by the Examiner. In light of these amendments, withdrawal of the 35 U.S.C.

§112 rejections of claims 1-20 is respectfully requested.

CLAIM REJECTIONS – 35 U.S.C. §102

On pages 3 and 4 of the Office Action, claims 1-3, 5, 11, 12, and 17-19 are rejected under

35 U.S.C. §102(a) as being anticipated by Khrustalev et al. (U.S. Patent No. 6,536,510).

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## Independent Claims

Claim 1 is hereby amended, and calls for:

A capillary assisted loop thermosiphon apparatus comprising:

at least one evaporator connected by a vapor line to a condenser;
a liquid line connecting the condenser and the evaporator;
the evaporator has a height in a direction of gravity significantly
greater than a width perpendicular to the height, and is positioned in the
direction of gravity from the condenser such that the condenser supplies
liquid under gravity induced pressure to the evaporator, and the
evaporator has a vertical capillary wick in which liquid wicks in the
direction of gravity.

(Amendment marks not shown)

Claim 17 is also hereby amended, and calls for:

A capillary assisted loop thermosiphon apparatus comprising:
at least one evaporator connected by a vapor line to a condenser;
a liquid line connecting the condenser and the evaporator;
the evaporator is positioned in the direction of gravity from the condenser such that the condenser supplies liquid under gravity induced pressure to the evaporator; and

the evaporator has a height in a direction of gravity significantly greater than a width perpendicular to the height, and has at least a pair of sheets, with at least one of the sheets having a corresponding wick portion attached thereto to provide a vertical capillary wick in which liquid wicks in the direction of gravity.

(Amendment marks not shown)

In contrast, Khrustalev et al. disclose a thermal bus that includes "two spaced-apart substantially horizontally oriented evaporators ... provided where each is substantially horizontally mounted in a support and positioned in thermal communication with at least one heat generating device. Each of the two elongate evaporators defines a central passageway having a liquid-working fluid entrance port and a vaporous-working fluid exit port and a capillary wick disposed on the walls of the central passageway." (Col. 3, lines 20-30).

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As discussed in the January 3, 2008 Examiner's Interview, Khrustalev et al. clearly teach

evaporators having a height no different in size than the width of the evaporators. This stands in

contrast to evaporators as claimed, in which the greater evaporator vertical height provides

greater relative internal surface area where a vertical capillary wick (also claimed in claims 1 and

17) can exist and operate.

Accordingly, Khrustalev et al. fail to teach, describe, or suggest, among other things, a

capillary assisted loop thermosiphon apparatus comprising at least one evaporator which "has a

height in a direction of gravity significantly greater than a width perpendicular to the height, and

is positioned in the direction of gravity from the condenser such that the condenser supplies

liquid under gravity induced pressure to the evaporator," and "has a vertical capillary wick in

which liquid wicks in the direction of gravity" as claimed in amended claim 1. Khrustalev et al.

also fail to teach, describe, or suggest, among other things, a capillary assisted loop

thermosiphon apparatus comprising at least one evaporator positioned in the direction of gravity

from a condenser and having "a height in a direction of gravity significantly greater than a width

perpendicular to the height," and "at least a pair of sheets, either or both of which are provided

with a vertical capillary wick" as claimed in amended claim 17.

In light of these and other reasons not discussed herein, the Applicants respectfully

submit that amended independent claims 1 and 17 are novel and non-obvious over Khrustalev et

al. Withdrawal of the 35 U.S.C. §102(a) rejections of claims 1 and 17 in view of Khrustalev et

al. is therefore respectfully requested.

**Dependent Claims** 

Claims 2, 3, 5, 11, and 12 depend from claim 1, and are therefore allowable based upon

amended claim 1 and upon other elements and features claimed in claims 2, 3, 5, 11, and 12 but

not discussed herein. Claims 18 and 19 depend from claim 17, and are therefore allowable based

upon amended claim 17 and upon other elements and features claimed in claims 18 and 19 but

not discussed herein. Withdrawal of the 35 U.S.C. §102(a) rejections of claims 2, 3, 5, 11, 12,

18, and 19 is therefore respectfully requested.

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## CONCLUSION

In view of the above, the Applicants respectfully request entry of the Amendment and allowance of pending claims 1-20. The Applicants also request that the Examiner contact the Attorney of record in the event such a call could advance prosecution of the present application.

Respectfully submitted,

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